

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1192897

Luminaire Tested: 24PT-50-PB1-L830

Issue Date: 10/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1192897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2202-549-7)
Test Lab: INNOVATION CENTER
Issue Date: 10/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PT-50-PB1-L830
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND BEVEL LENS
Light Source: -
Ballast/Driver: -

Summary

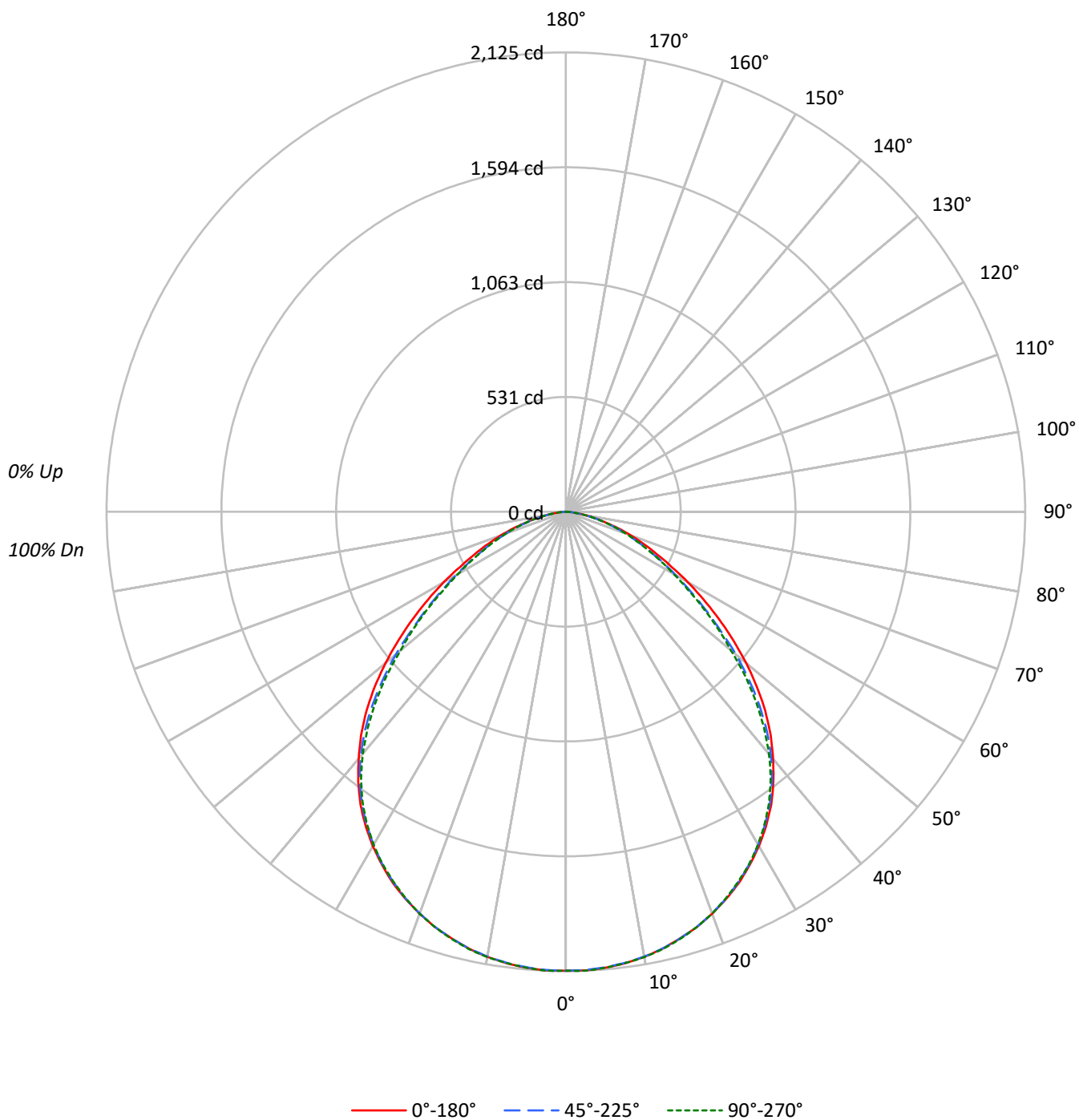
Lumens per Lamp: N/A
Luminaire Lumens: 5042.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92	90	89	87
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68		76	71	67		74	70	66	64
4	86	75	66	60	83	73	66	60	71	64	59		69	63	58		66	62	58	55
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60	55	51	49
6	73	61	52	46	71	60	52	46	58	51	46		56	50	45		55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41		52	45	40		50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46	41	36	34
9	59	47	39	33	58	46	38	33	45	38	33		44	38	33		43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30		41	34	30		40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3037	3037	3037
5°	3039	3036	3039
10°	3036	3034	3037
15°	3025	3025	3029
20°	3011	3009	3011
25°	2989	2982	2978
30°	2950	2939	2936
35°	2891	2873	2862
40°	2784	2757	2729
45°	2639	2561	2517
50°	2421	2285	2220
55°	2154	1962	1933
60°	1866	1677	1648
65°	1574	1438	1421
70°	1336	1231	1238
75°	1049	1003	1012
80°	764	751	758
85°	466	494	494

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2639 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	4.0
10°-20°	576.7	11.4
20°-30°	870.5	17.3
30°-40°	1026.5	20.4
40°-50°	975.3	19.3
50°-60°	719.7	14.3
60°-70°	434.4	8.6
70°-80°	198.8	3.9
80°-90°	38.8	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1648.4	32.7
0°-40°	2674.9	53.1
0°-60°	4369.9	86.7
0°-90°	5042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2123	2123	2123	2123	2123	
5°	2117	2118	2115	2113	2117	201
15°	2043	2044	2043	2042	2046	577
25°	1894	1893	1890	1887	1888	872
35°	1656	1653	1646	1639	1639	1032
45°	1305	1295	1266	1249	1244	1002
55°	864	829	787	768	775	773
65°	465	450	425	416	420	467
75°	190	186	182	179	183	207
85°	28	29	30	29	30	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2123.3	2123.3	2123.3	2123.3	2123.3
2.5°	2123.3	2123.3	2121.6	2120.0	2125.0
5°	2116.6	2117.5	2114.9	2113.3	2116.6
7.5°	2106.6	2106.6	2104.1	2102.4	2105.7
10°	2090.7	2090.7	2089.0	2088.2	2091.5
12.5°	2069.8	2070.6	2069.0	2068.1	2072.3
15°	2043.0	2043.9	2043.0	2042.2	2045.5
17.5°	2014.6	2015.4	2013.8	2011.2	2014.6
20°	1978.6	1980.3	1977.0	1975.3	1978.6
22.5°	1938.5	1940.2	1936.8	1935.1	1935.1
25°	1894.2	1893.3	1890.0	1886.6	1887.5
27.5°	1842.3	1843.2	1838.1	1834.8	1837.3
30°	1786.3	1787.1	1779.6	1777.1	1777.9
32.5°	1723.6	1722.7	1716.0	1711.9	1711.9
35°	1655.8	1653.3	1645.8	1639.1	1639.1
37.5°	1577.2	1575.5	1567.2	1558.8	1556.3
40°	1491.1	1489.4	1476.9	1466.0	1461.8
42.5°	1402.4	1397.4	1377.3	1360.6	1356.4
45°	1304.6	1295.4	1266.1	1248.6	1244.4
47.5°	1199.2	1187.5	1147.4	1127.3	1125.6
50°	1088.0	1067.1	1026.9	1001.0	997.7
52.5°	975.9	945.8	899.8	880.6	885.6
55°	863.9	828.8	786.9	768.5	775.2
57.5°	755.2	718.4	682.4	664.0	668.2
60°	652.3	620.5	586.2	571.2	576.2
62.5°	551.1	531.0	501.8	488.4	495.1
65°	465.0	449.9	424.8	416.5	419.8
67.5°	389.7	378.0	356.3	349.6	354.6
70°	319.5	311.1	294.4	291.9	296.0
72.5°	252.6	247.5	238.3	234.2	236.7
75°	189.8	186.5	181.5	179.0	183.1
77.5°	137.1	134.6	133.0	133.0	133.8
80°	92.8	92.0	91.2	90.3	92.0
82.5°	56.9	56.9	56.9	56.9	57.7
85°	28.4	29.3	30.1	29.3	30.1
87.5°	9.2	10.0	10.9	10.9	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)